

MAGNETIC ENHANCEMENT FOR MECHANICAL

CONFINEMENT OF PLASMA

ABSTRACT OF THE DISCLOSURE

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A plasma processing apparatus for processing a substrate is provided. A plasma processing chamber with chamber walls is provided. A substrate support is provided within the chamber walls. At least one confinement ring is provided, where the confinement ring and the substrate support define a plasma volume. A
10 magnetic source for generating a magnetic field for magnetically enhancing physical confinement provided by the at least one confinement ring is provided.